VARIANYAN, L...

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

B**-**9

Catalysis

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11229

Author : Vartanyan L.S., Knorre D.G., Mayzus Z.K., Emanuel' N.M.

Title : Kinetic Characteristics of n-Decane Oxidation Following the Initial

Macroscopic Stage of Catalyst Transformation

Orig Pub : Zh. fiz. khimii, 1956, 30, No 3, 665-675 (English summary)

Abstract : Co stearate and Mn laurate which catalyze oxidation of n-decame at 1400,

undergo in the course of the reaction a cycle of valency transformations which terminates by a separation of the catalyst into the precipitate (RZhKhim, 1955, 36911; 1956, 35357). Removal of catalyst precipitate (CP) does not affect the kinetics of accumulation of alcohols, carbonyl compounds, acids and esters. Concentration of peroxide increases after removal of CP to a value characteristic of non-catalyzed oxidation. It is shown by calculations that the results obtained can not explained in the scope of the generally accepted chain scheme of oxidation of hydrocarbons, since this scheme assumes that rate of accumulation of final

oxidation products, after removal of CP, should decrease, and kinetic

oxidation products, after removal of cr, should decrease, and himself

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USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry,
Catalysis

B-9

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11229

curves approach the curves of non-catalyzed oxidation. The authors consider that during the initial macroscopic stage of catalyst transformation there are formed metal-free intermediate compounds which ensure progress of the process at a rate characteristic of catalyzed oxidation, also after removal of CP.

2/2

VARTANYAND

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

B-9

Catalysis

: Referat Zhur - Khimiya, No 4, 1957, 11231 Abs Jour

: Vartanyan L.S., Mayzus Z.K., Emanuel' N.M.

: Kinetic Characteristic of Hydroperoxides as Intermediate Products of Author Title

the Reaction of Oxidation of n-Decane

Orig Pub : Zh. fiz. khimii, 1956, 30, No 4, 856-861

: Decomposition of hydroperoxide formed on oxidation of n-decane (I) at Abstract

120-140° was studied in a medium of I, oxidized to different extent. The reaction in of 1-st order and values of velocity constant decrease with increasing extent of oxidation of I. Energy of activation of hydroperoxide decomposition, with a constant extent of oxidation, is 24 kcal/mole. Comparison of aummative kinetic curve of the rate of formation of final reaction products (alcohols, carbonyl compounds, acids and esters) with kinetic curve of hydroperoxide decomposition rate, shows that the main portion of final oxidation products (~80%) is for-

med as a result of decomposition of intermediate hydroperoxide.

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VARTANYAN, L.S

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

B-9

Catalysis

: Referat Zhur - Khimiya, No 4, 1957, 11230 Abs Jour

: Vartanyan L.S., Mayzus Z.K., Emanuel' N.M.

: On Sequence of Formation of Oxidation Products of n-Decane Author Title

Orig Pub : Zh. fiz. khimii, 1956, 30, No 4, 862-870

To determine the sequence of formation of oxidation products of n-decane use was made of the kinetic procedure of removing from the reaction mix-Abstract :

ture (at a certain moment of the reaction) the intermediate product of oxidation -- the hydroperoxide(I). Study of the subsequent kinetics of accumulation of the final reaction products shows that removal of peroxides affects mostly the kinetics of formation of alcohols, to a lesser extent the kinetics of carbonyl compounds, and has pratically no effect on kinetics of accumulation of the acids. Products of decomposition of I, formed on oxidation of decame, are alcohols and carbonyl compounds. Acids are not formed directly consideromposition of alcohome results obtai-

ned indicate the following sequence in the formation of products:

1/2

CIA-RDP86-00513R001858710011-9" **APPROVED FOR RELEASE: 08/31/2001**

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

B-9

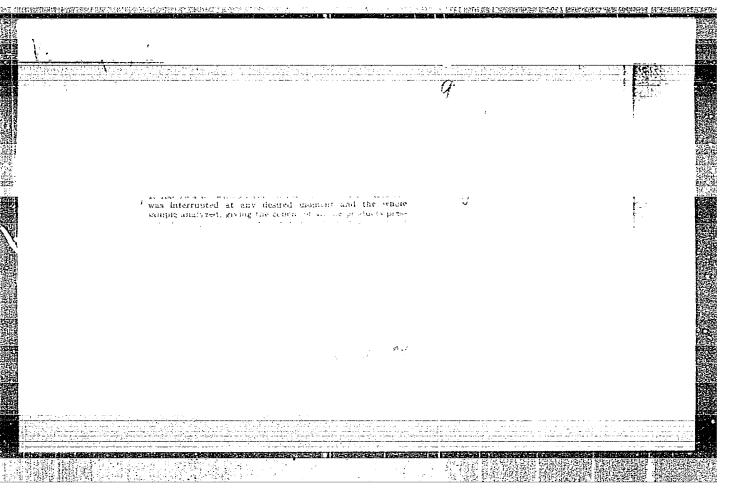
Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11230

alcohols

ketones -> acids. Mathematical analysis of the form of kinetic curves of oxidation product accumulation after removal of peroxides, yields in the case of such a sequence, results that coincide with experimental data.

2/2

A CHARLES OF THE STATE OF THE S



VARTANYAN, L.S.; EMANUEL', N.M.

Inactivation of lactic dehydrase by free radicals formed from inhibitors of radical processes. Dokl. AN SSSR 143 no.5:1215-1218 Ap '62. (MIRA 15:4)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Emanuel'). (Dehydrases) (Radicals (Chemistry))

111561 S/020/63/148/001/020/032 B144/B186

11,400 5:1140 AUTHORS:

Vartanyan, L. S., Strigun, L. M., Emanuel', N. M., Corresponding Member AS USSR

TITLE:

Kinetics of propylgallate autooxidation in aqueous solution

Doklady, v. 148, no. 1, 1963, 97-100 Akademiya nauk SSSR. PERIODICAL:

TEXT: The course of the oxidation of propyl gallate (PG) which has an antitumor and radiation-protective effect was determined polarographically in a borate buffer of pH 7.2 - 7.4 at a constant temperature of 21°C. Consistently with data published on PG in acetate buffer, the half-wave potential depended linearly on the pH of the medium within the pH range 7.1 - 8.6. The PG oxidation rate increased with increasing pH and showed a linear dependence on the OH ion concentration, which indicates that PG ions with a single charge react. The reaction is first-order with respect to the initial PG concentration. Moreover a zero-order reaction with respect to the process concentration was found, which may be explained by intermediate formation of quinone. This is converted with an increasing rate to semiquinone by reacting with PG. The temperature

Card 1/2

Kinetics of propylgallate ...

S/020/63/148/001/020/032

dependence of the oxidation rate was studied at pH 7.6 and 8.8. activation energy derived from these data was 18000 ± 700 cal/mole and is attributed to the ionized semiquinone molecule. A steep wave with a half-wave potential of 1.17 v was detected polarographically in the PG oxidate (buffer pH 7.2). By separate tests it was proved that this. wave is due to the presence of H202, and this was identified also by the qualitative reaction with $(TiO_2 + H_2SO_4)$. The presence of further oxidation products resulted from the 0.03 v difference between the half-wave potentials of $\mathrm{H_{2}O_{2}}$ and the PG oxidate. A complete scheme of PG oxidation in aqueous solution is given. The formation of free-radical intermediate products may explain the different behavior of phenol inhibitors in biological experiments. There are 4 figures.

ASSOCIATION:

Institut khimicheskoy fiziki Akademii nauk SSSR (Institute

of Chemical Physics of the Academy of Sciences USSR)

SUBMITTED:

August 10, 1962

Card 2/2

AGATOVA, A.I.; VARTANYAN, L.S.; EMANUEL', N.M.

Mechanism by which free radicals formed from inhibitors of radical processes interact with the SH groups of proteins. Dokl. AN SSSR 150 no.3:547-550 My '63. (MIRA 16:6)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Emanuel').

(Proteins) (Thiols) (Radicals(Chemistry))

VARTANTAN, L.S.; GOMIKBERG, E.M.

Determination of the thermodynamic constants of ionization of propyl gallates in aqueous solution. Izv. AN SSSR. Ser. khim. (MIRA 17:1) no.11:2047-2049 N '63.

1. Institut khimicheskoy fiziki AN SSSR.

VARTANYAN, L.S.; GONIKBFRG, E.M.; EMANUEL', N.M.

Effect of propyl gallate on the kinetic constants of the enzymatic reduction reaction of sodium pyruvate. Dokl. AN SSSR 154 no.1:223-225 Ja'64. (MIRA 17:2)

1. Chlen-korrespondent AN SSSR (for Emanuel!).

VARTANYAN, L.S.; GONIKBERG, E.M.; EMANUEL', N.M.

Kinetics of inactivation of lactic dehydrogenase with radical products of propyl gallate autoxidation. Izv. AN SSSR. Ser. khim. no.10:1742-1748 0 '64. (MIRA 17:12)

1. Institut khimicheskoy fiziki AN SSSR.

VARTANYAN, L. V., Physician

"Macro and Microscopic Structure of the Middle Membrane of the Fulmonary Artery." Sub 22 Oct 51, Second Moscow State Medical Inst imeni I. V. Stalin.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

VARTANYAN, L.V. (Yerevan, Arm. SSR, ul. Shamyana, d. 10. pod"ezd III, kv. 4)

Structure of the wall of the pilmonary artery. Arkh.anat.gist.

1 embr. 33 no.3:66-67 Jl-S '56.

1. Iz kafedry normal'noy anatomii (zav. - prof.I.P.Ayvazyan)

Yerevanskogo med. instituta.
(ARTERISS, PULMONARY, anatomy and histology,
(Rus))

VARTANYAN, L.V., assistent

Role of the vagus nerves in the organization of the solar plexus. Trudy Erev.med.inst. no.11:121-128 '60. (MIRA 15:11)

1. Iz kafedry normal'noy anatomii Zav. kafedroy dotsent A.M. Akopyan) Yerevanskogo meditsinskogo instituta.

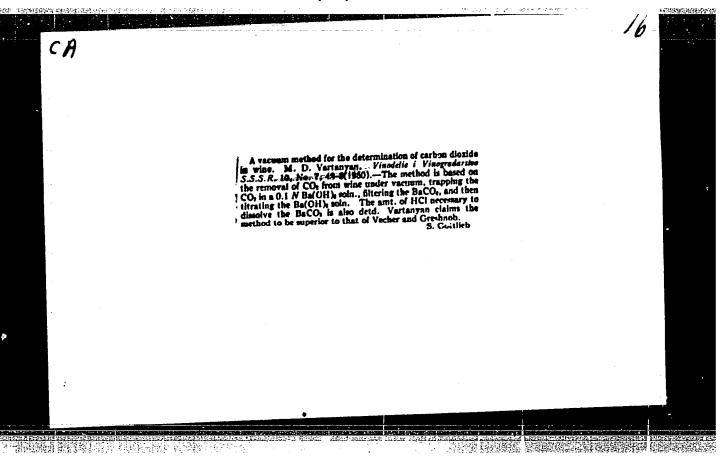
(VAGUS NERVE) (SOLAR PLEXUS)

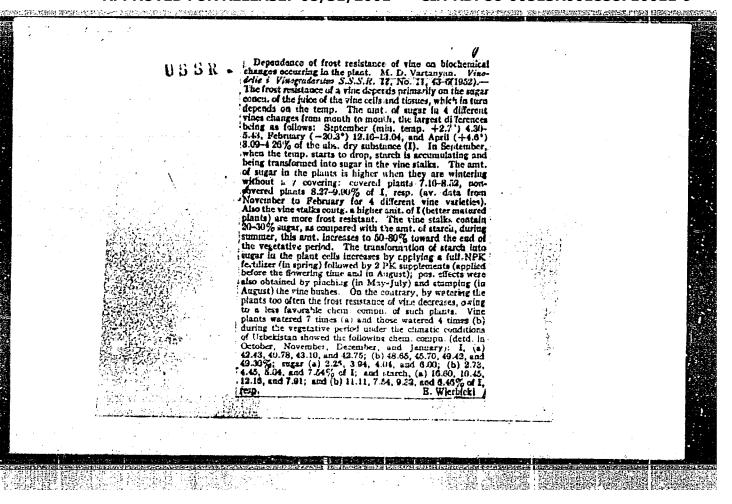
VARTANYAN, L.V. Topography of the tibial nerve in the opoliteal fossa and its relation to the populated worsels.

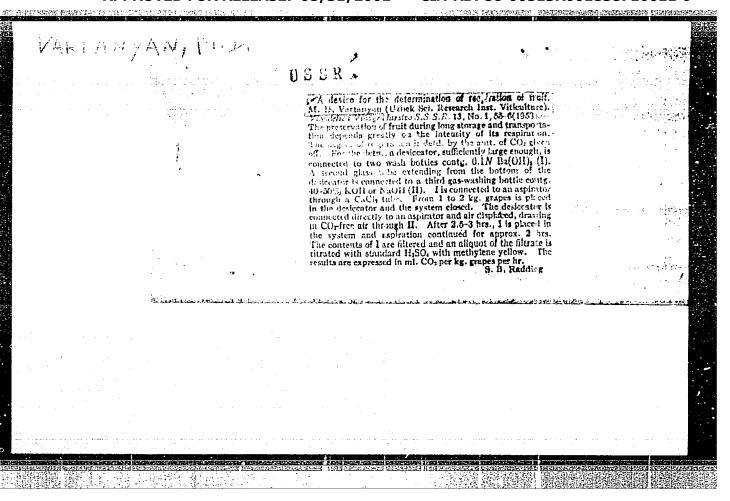
Topography of the tibial nerve in the opoliteal fossa and its relation to the popliteal vessels. Zhur. eksp. i klin. med. 3 no.4881-87 '63 (MIRA 16:12)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710011-9"

VARTANYAN, L.Ye.; kand.tekhn.nauk Calculating the duration of a production cycle under continuous-production conditions. Sbor. auch. trud.ErFI no. 20:127-136 159. (Factory management) (MIRA 14:5)







ACCHUYAN, M. D. "The Biochemical Processes Cocurring in the Grape

Vine in Connection with Agricultural-Engineering Procedures Directed toward Increasing Its Front Resistance." Ifin Higher Education USSR. Central Asia State U ineni V. I. Lenin. Tashkent, 1955.

(Dissertation for the Degree of Candidate of Biological Sciences)

So; Knizhnaya Letopis', No 3, 1956

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710011-9"

USSR/Cultivated Plants - Fruits. Berries.

M-6

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 30066

Author

Vartanyan, M.D.

Inst

Title

: The Dependence of Frost Resistance in Grape Buds on the

Concentration of Cellular Fluid.

Orig Pub

: Vinodleiye i vinogradarstvo SSSR, 1957, No 2, 37-38.

Abstract

The mineral salt and soluble sugar content in grape shoots left after frost and damage is considered as the basic substances which determine the concentration of cellular fluid. The shoots whose buds suffered from the frosts contained considerably less soluble sugar than shoots with healthy buds. The sum of soluble sugars and mineral substances in the cellular fluid of those shoots whose buds perished was 14 less than in those undaraged. This confirms the relation of frost resistance to the concentration fo cellular fluid and the content of protective substances.

Card 1/2

- 33 -

USSR/Cultivated Plants - Fruits. Berries.

M-6

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 30066

The increased cell fluid concentration in the shoots during fall, which is needed to insure greater frost resistance, may be induced by proper fertilization, timely stopping of irrigation and performing green operations at the best moment.

Card 2/2

CHEINOKOV, Vasiliy Stepanovich, kand.ekonom.nauk; VARTANYAN, M.Kh., red.;

GANZATEVA, M., tekhn.red.

[Transition from capitalism to socialism. The victory of socialism in the U.S.S.R.; lectures in the course on political economy]

Perekhodnyi period ot kapitalizma k sotsializmu. Pobeda sotsializma v SSSR; lektaii po kursu politicheskoi ekonomii. Moskva, Gos.izd-vo "Sovetskaia nauka," 1957. 46 p.

(Russia--Economic policy)

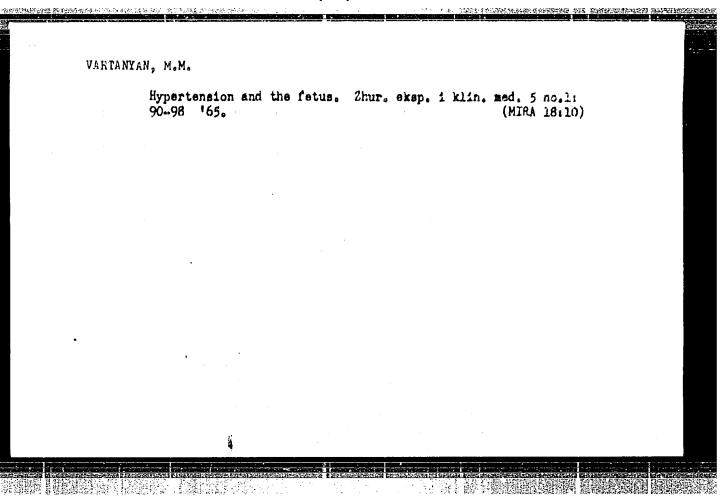
(Russia--Economic policy)

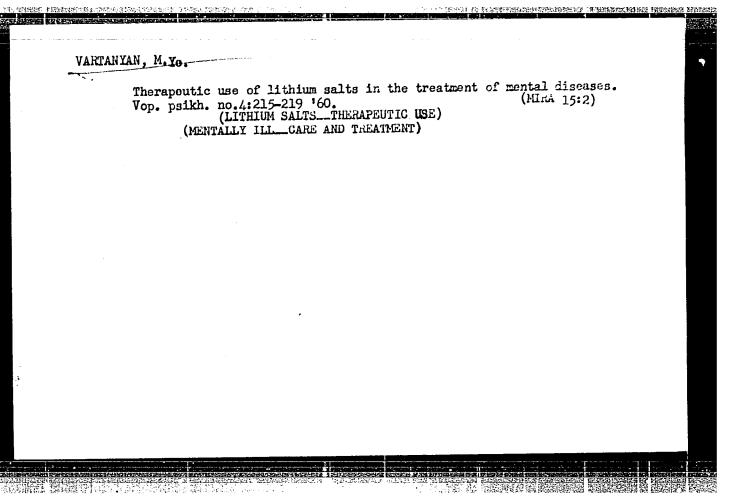
VARTAHYAH, M.M.

Effect of perimonal diagramy on the nonlaboration on an application of the fetus in hypertensive women. Akeab. 19 no 1000 1000-100 (MIRA 18:20)

1. Otdeleniye fiziologii i patchogii berezonnozti (sav. - prof. S.M.Bekker) i laboratoriya normal'noy i patchori beskey fiziologii (sav. - prof. N.L.Garrasheva) Instituta abasherasya i ginezologii (Birektor - chlor-korrespondent AMN SCCE prof. M.A.Petrov-Madiakov) AMN SSSR, Leningrad.

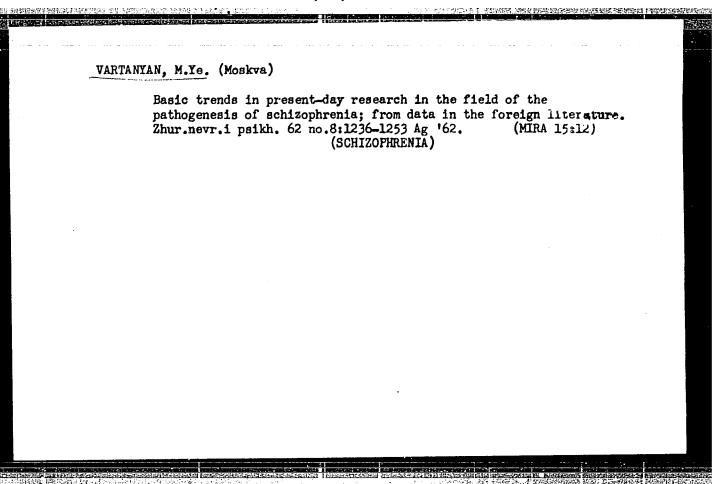
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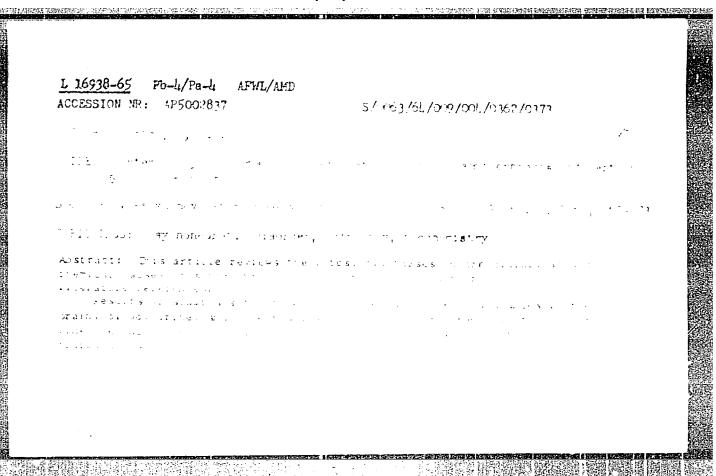




VARTANYAN, M.Yg.; KAZANETS, E.F.; LIBERMAN, Yu.I.; FAYVISHEVSKIY, V.A.

Statistical analysis of late sequelae from a closed injury of the head. Vop. pgikh. no.4:284-289 '60. (Mi:A 15:2) (HEAD_WOUNDS AND INJURIES)





L 16938-65 ACCESSION NR: 195002837		0	
practical importance, of whether such secondary manifestations are active participants in the pathogenic mechanisms of sonizophrenia arises.			
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on Matter 19	No. 1		
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ACCESSION NR: APSON2838

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THE THE TREE TREES TO SELECT A PROPERTY OF THE PROPERTY SHOWS LAW

AUT. DR: Effoimson, V. P.: Ventenyon, M. Yo. (Condidate of medical sciences) &

TITLE: Achievements of the denetics and phenogenetics of certain psychic disorders

SCURCE: Vsesoyuznoye khimi cheskoye obshchestvo. Zhurnal, v. 9, no. 4, 1964, 462-466

TOPIC TAGS: psychonourotic disorder, genetics

Abstract: This article is a survey of current concepts regarding the role of cenetic factors in the incidence of certain psychic disorders, with compassion schizophren as the line of certain psychic disorders, with compassion schizophren as the line of certain psychic disorders, with compassion schizophren as the line of the cash call the cylinder relations are listed.

Stress is braced on comparative structes of the incidence of manicactoressive us.chosto.com since in the incidence of manicactoressive us.chosto.com since this permits the poparative of Abstle Control from environmental and there is the incidence of a control from environmental and there is the incidence of the

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ACCESSION NR: AP5002838

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cies in schizophrenia victims. This disorder is considered as a group concept rather than a single, well defined illness. Orig. art. has 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: CO

SUB COLE: PH, LS

NO REF SOV: 002

OTHER: 027

JPRS

Card 2/2

VARTANYAN, M.Ye. (Moskva)

Expansion of biological research in psychiatry. Zhur. nc r. i. psikh. 63 nc 6:804-813 '63. (MIR. 17:6)

VARTANYAN, M. Ye.

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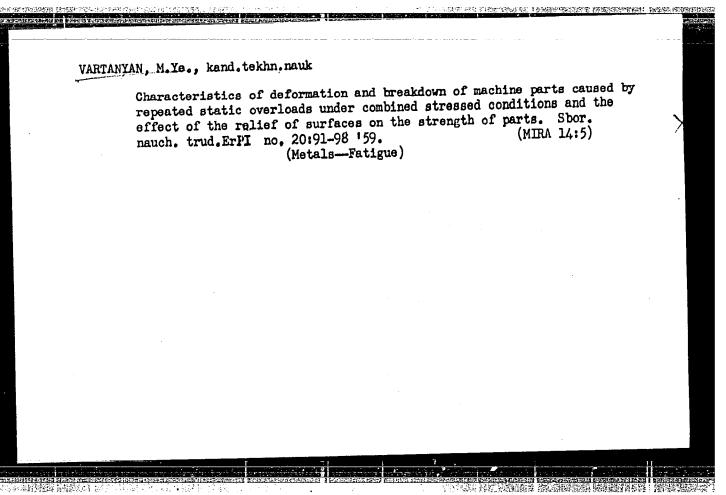
VARTANYAN. M. Ye. The Problem of the Effect of Cutting Systems on Certain Operating Indexes of Machine Parts. Min Higher Education USSR. Yerevan Polytechnic Inst imeni K. Marks. Yerevan, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

So: Knizhnava Letopis! No 3, 1956

VARTANYAN, M. Ye.

Effect of cutting conditions on the durability of machine parts subjected to repeated static loads. Shor.nauch.trud. ErPI no.10: 73-85 \$56. (MLRA 9:12)

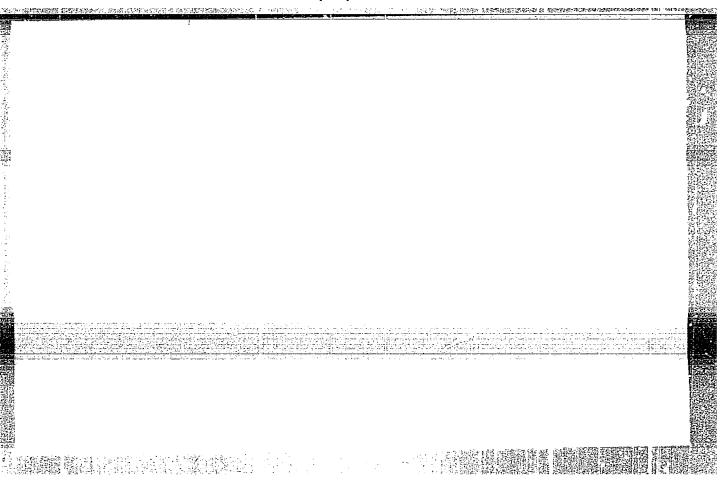
1. Kafedra tekhnilogii mashinostroyeniya Yerevanskogo politekhnicheskogo instituta.
(Metal cutting) (Strains and stresses)



RABATAN, A.T.; MERTAN, C.M.; VARTANYAN, N.G.

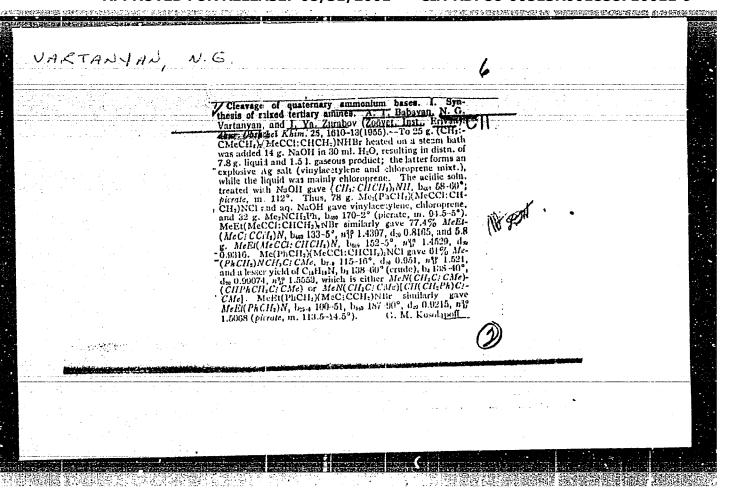
Isomerization of 1-dialkyl aminobutenes-2. Dokl. AN Arm. SSR 19 no.3: 83-84 154.

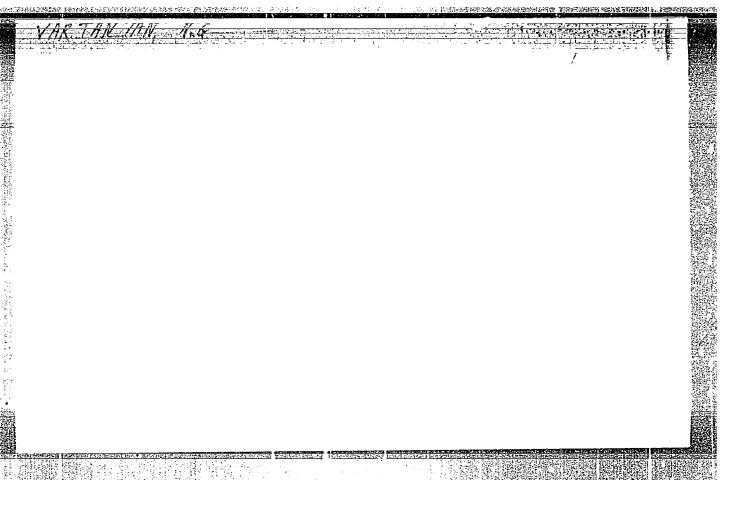
1. Predstavleno A.L. Mndshoyanom. (Butene)



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BABAYAN, A.T.; MARTIROSYAN, G.T.; VARTANYAN, N.G.; INDZHIKYAN, M.G.

Amines and ammonium compounds. Part 12: Synthesis of some
amines. Zhur.ob.khim. 30 no.7:2263-2267 J1 '60.

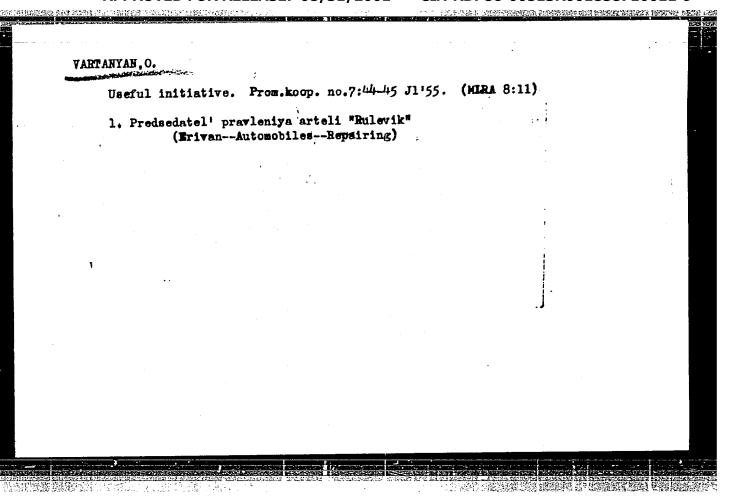
(MIRA 13:7)

1. Institut organicheskoy khimii Akademii nauk Armyanskoy SSR.
(Amines)

A REPRESENTATION OF THE PROPERTY OF THE PROPER

KASHARSKIY, E.G.; VARTANIYAN, N.V.

Characteristics of a series of turbogenerators with an increased power rating. Sbor. rab. po vop. elektromekh. no.6:200-215 '61. (MIRA 14:9) (Turbogenerators)

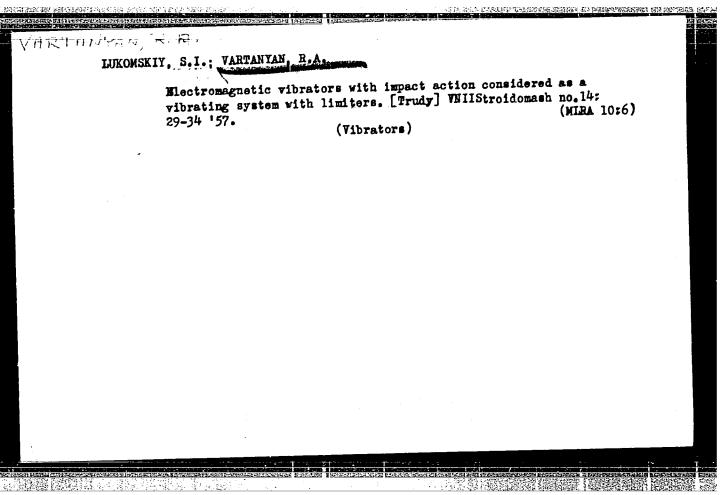


VARTANYAN, O.A.; KOLBINSKIY, P.V.

Improving the living conditions of railroad workers. Put'i put.
(MIRA 15:2)

1. Zamestitel' nachal'nika Ostrogozhskoy distantsii puti,
Yugo-Vostochnoy dorogi (for Vartanyan). 2. Smotritel' zdaniy
Ostrogozhskoy distantsii puti, Yugo-Vostochnoy dorogi (for
Kolbinskiy).

(Railroads--Buildings and structures)



VARTANYAN, S. A.

Cand Chem Sci

Dissertation: "Syntheses and Transformations of Vinyl-Ethi-nyl-Carbinols Containing Alkosy Groups."

29 Nov. 49

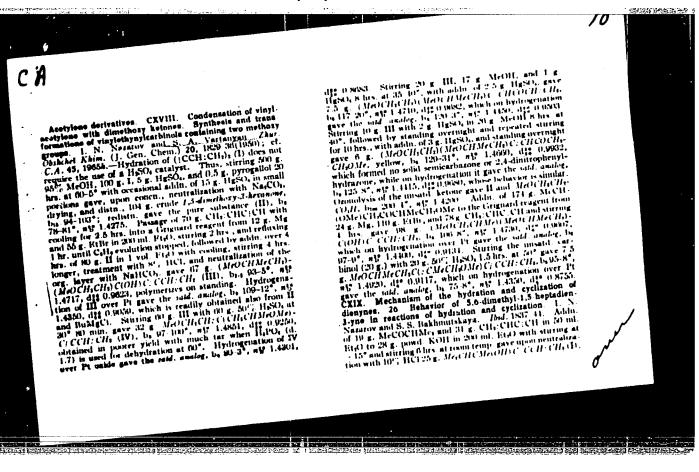
Inst of Organic Chemistry, Acad Sci US3R

SO Vecheryaya Moskva Sum 71

Varianyan, S. A.

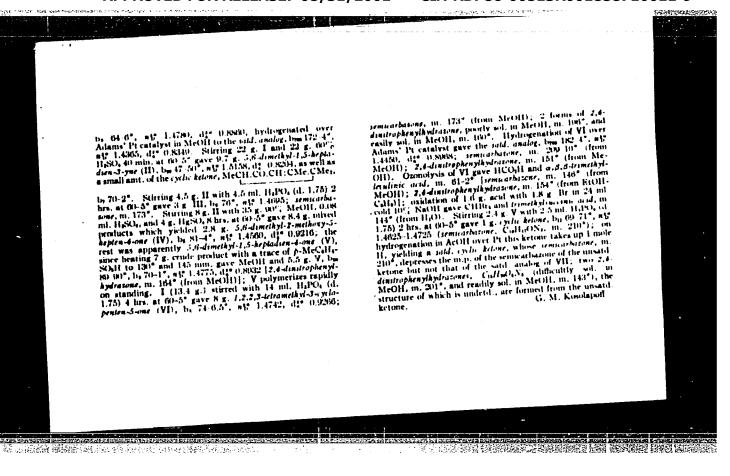
"Acetylene derivatives. 117. Synthesis and transformations of vinyl ethinyl carbinols containing a methoxy group." I. N. Nazarov and S. A. Vartanyan. (p. 1582)

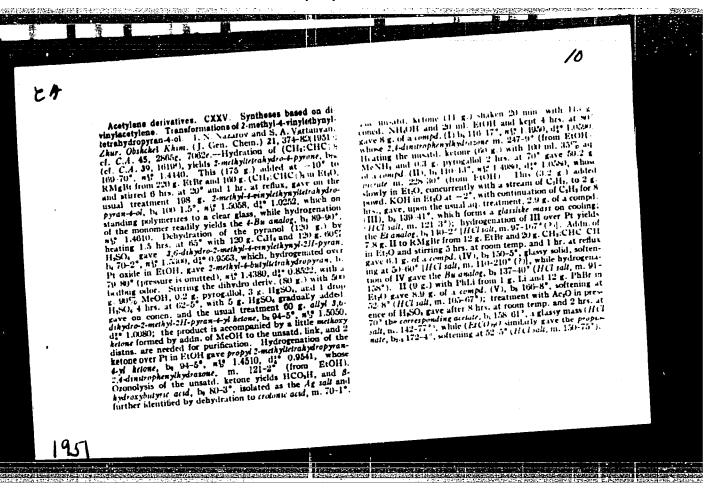
S0: Journal of General Chemistry (Zhurnal Chahchel Khimil) 1950, Vol 20, No 9.

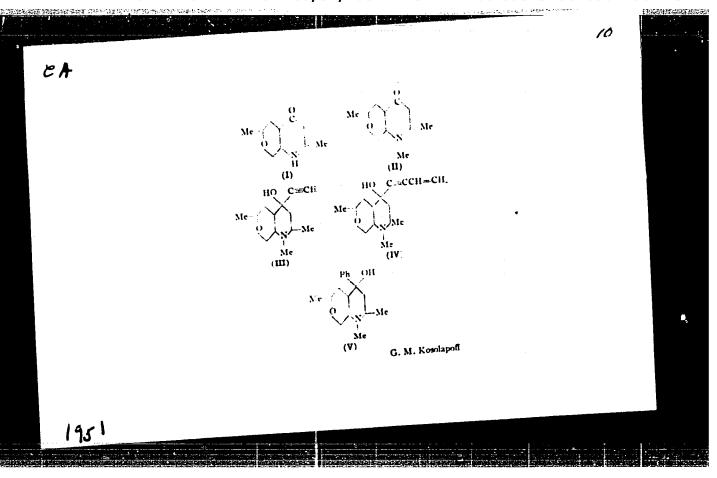


"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858710011-9







s/079/60/030/04/33/080 B001/B016

Matsoyan, S. G., Chukhadzhyan, G. A., Vartanyan, S. A. AUTHORS:

Reaction of Acetylene Carbinols With Acetic Acid in the Presence of Mercuric Acetate, and the Formation Mechanism TITLE:

of Acetoxy Ketones 1

Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1202-1207 PERIODICAL:

TEXT: In continuation of the papers by I. N. Nazarov (Ref. 1) and G. F. Hennion (Ref. 2) dealing with the synthesis of acetyl carbinol acetates, the authors of the present paper performed a more convenient synthesis of acetoxy ketones by boiling the acetic acid solutions of acetylene alcohols in the presence of mercuric acetate, with subsequent fractionation of the reaction mixture. The corresponding acetates of the tertiary acetyl carbinols thus resulted from dimethyl-, methyl-ethyl-, methyl-isopropyl-, disopropyl-, methyl-phenyl-ethynyl carbinol as well as from 1-ethynyl-cyclohexanol-1. By heating the disubstituted butin-2-ol-1 with glacial acetic acid in the presence of mercuric acetate, methyl-\$acetoxy-ethyl ketone is formed. On reaction of the acetate of butin-2-ol-1

Card 1/3

CIA-RDP86-00513R001858710011-9" APPROVED FOR RELEASE: 08/31/2001

Reaction of Acetylene Carbinols With Acetic Acid S/079/60/030/04/33/080 in the Presence of Mercuric Acetate, and the B001/B016 Formation Mechanism of Acetoxy Ketones

with mercury salt, the addition product (I) was separated: __CH_OCOCH_Z

CH₃-C=C CH₂OCOCH₃

OCOCH₃

(I)

Scheme 1 illustrates the mechanism of this reaction which is confirmed by schemes 2 and 3. Methyl- β -acetoxy-ethyl ketone (V) is obtained, in this connection, as end product. The formation mechanism of the acetates of acetyl carbinols from monosubstituted acetylene alcohols on reaction with acetic acid in the presence of mercuric acetate may be illustrated in steps by scheme 5. All resultant α -acetoxy ketones were hydrolyzed by aqueous alcoholic alkali lye to give the corresponding α -keto alcohols (Table). There are 1 table and 10 references 6 of which are Soviet.

Card 2/3

Reaction of Acetylene Carbinols With Acetic Acid in the Presence of Mercuric Acetate, and the Formation Mechanism of Acetoxy Ketones

S/079/60/030/04/33/080 B001/B016

ASSOCIATION: Institut organicheskoy khimii Akademii nauk Armyanskoy SSR (Institute of Organic Chemistry of the Academy of Sciences, Armyanskaya SSR)

SUBMITTED: April 20, 1959

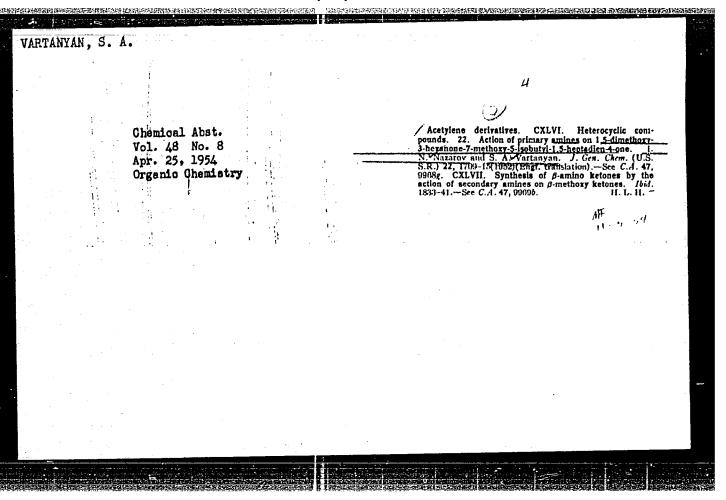
Card 3/3

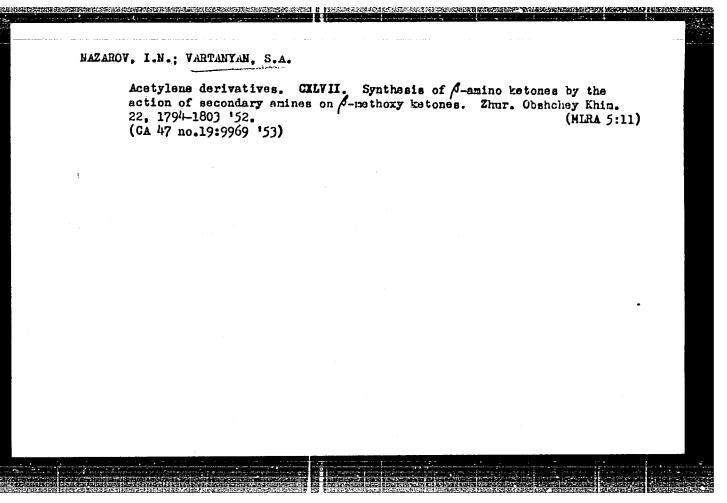
TAMAROV, I.N., VARTANYAN, S.A.

Quinoline Derivatives

Acetylene derivatives. Part 145. Heterocyclic compounds. No. 21. Synthesis and transformations of 1,2,6,6-tetrametryl-7-oxa-4-ketodekahydroquinoline., Zhur., ob., khim., 22, no.8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 1953, Uncl.



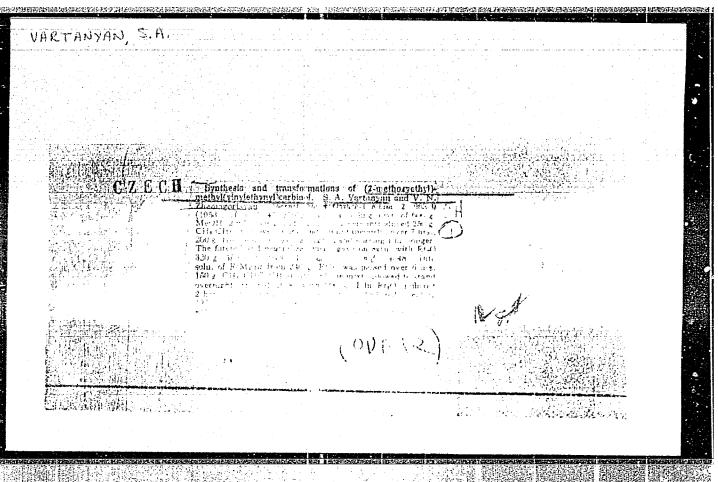


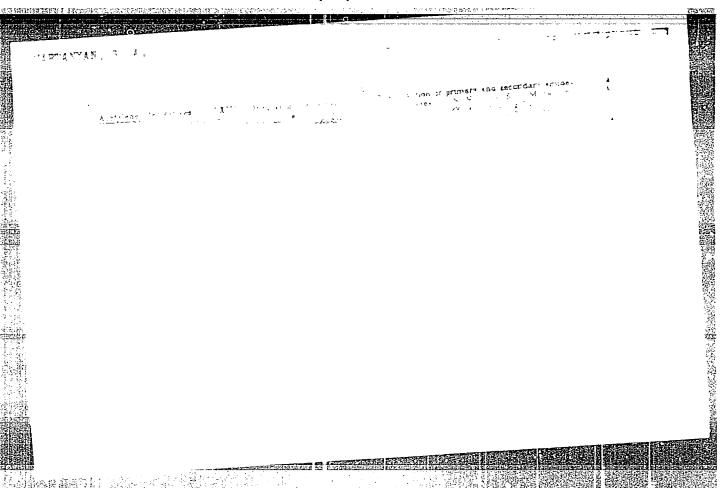
NAZAROV, I.N.; VARTANYAN, S.A.

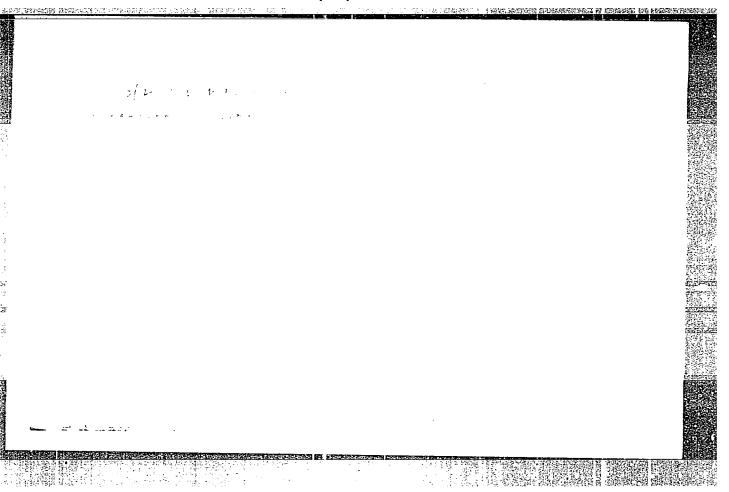
Acetylene derivatives. Part 149. Synthesis of -amino ketones by the reaction of secondary amines with -methoxyketones and . -unsaturated ketones. Ixv. AN SSSR. Otd.khim.nauk. no.2:314-320 Nr-Ap '53. (MIRA 6:5)

1. Khimicheskiy institut Akademii nauk Armyanskoy SSSR. (Ketones)

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710011-9



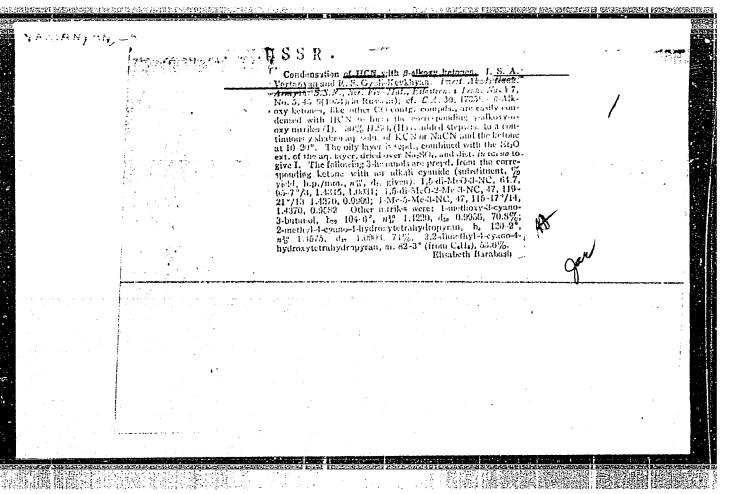


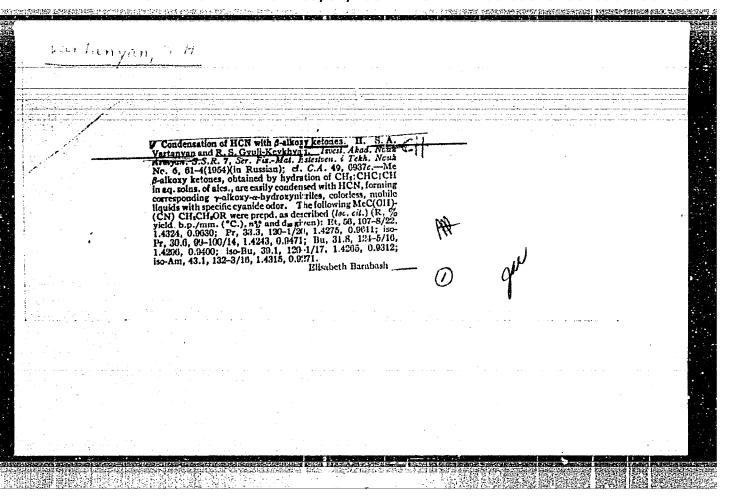


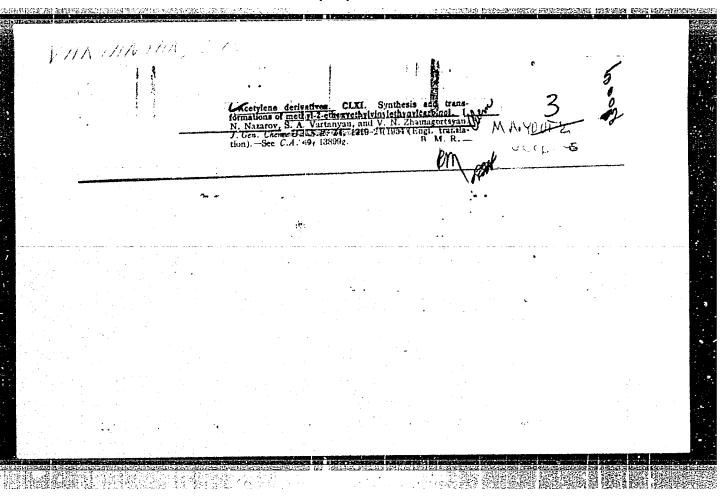
NAZAROV, I.N.; MATSOYAN, S.G.; VARTANYAN, S.A.

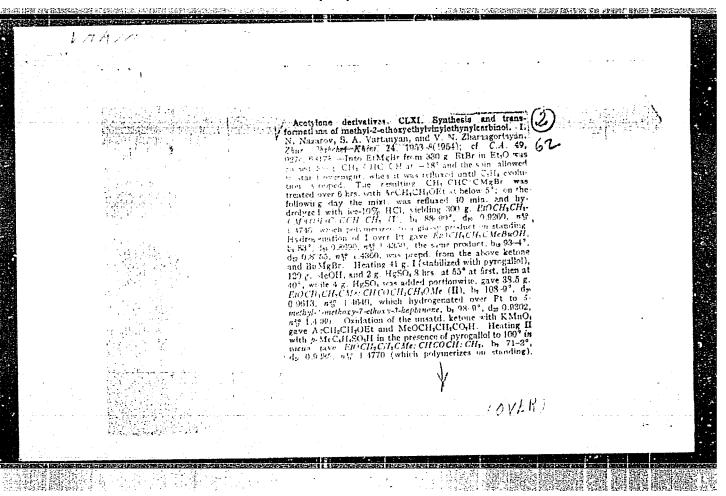
Acetylene derivatives. Part 164. Action of primary and secondary amines on tetrahydro-4-pyrones. Zhnr.ob.khim.23 no.12:1990-1994 D *53. (MLRA 7:2)

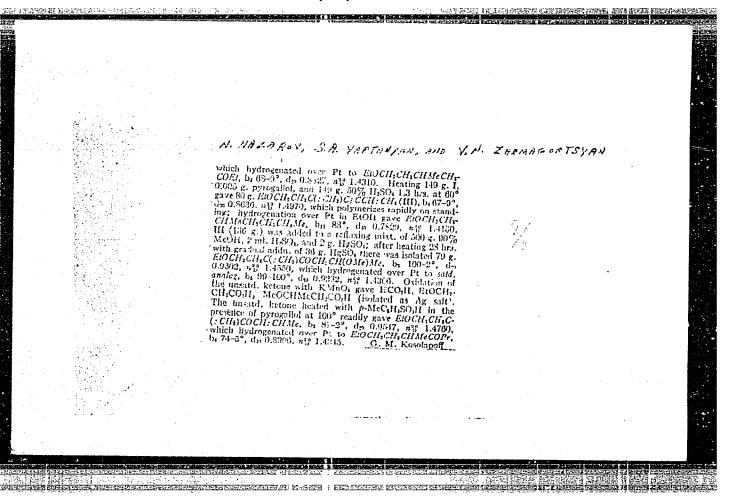
1. Institut organicheskoy khimii Akademii nauk SSSR. (Pyrones) (Amines)











VARTANYAN, SARKID AMBARTSUMOVICH

VARTANYAN, Sarkid Ambartsumovich (Chemical Inst of Acad Sci AR SSR). Academic degree of Doctor of Chemical Sciences based on his defense, 31 March 1955, in the Council of the Inst of Organic Chemistry, Acad Sci USSR, of his dissertation entitles: "Syntheses and conversation of alkozyketones and vynilacetylene alcohols with alkoxyl groups."

For the Academic Degree of Doctor of Sciences.

Byulleten' Ministerstva Vysshego Obrazovaniya SSSR, List No.8, 14 April 1955 Decision of Higher Certification Commission Concerning Academic Degrees and Titles.

JPRS 512

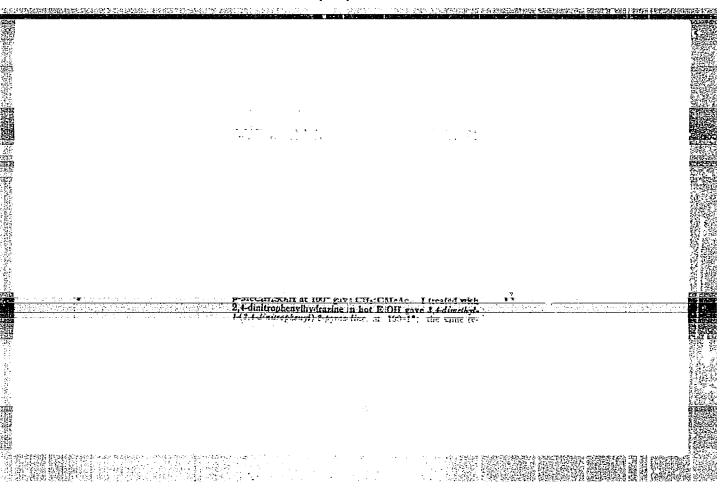
MATSOYAN, S.G.; VARTANYAN, S.A.

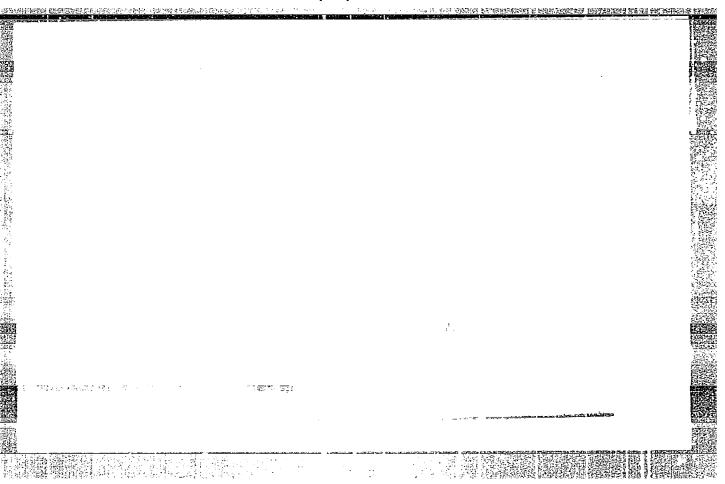
Transformations of methyl- \$\psi\$ -alkoxyethylketones. Inv. AN Arm. SSR. Ser.
FMET nauk 8 no.2:31-36 Mc-Ap '55. (MIRA 8:7)

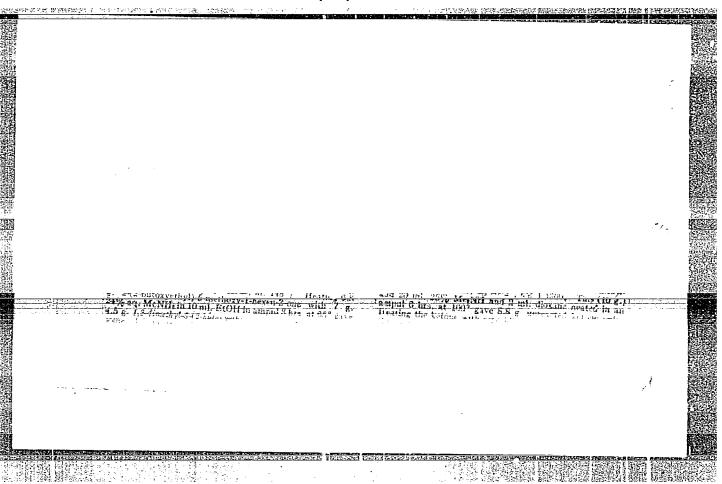
1. Khimicheskiy institut Akademii nauk Armyanakoy SSR.

(Notones)

VARTANYAH, SIA,	
Activine derivatives. CLXII. Synthesis and transformations of methyl-2-butoxyethyl(vinylethynyl)carbinol. S. A. Vartanyan, V. N. Zhamagortsyan, and I. N. Nazaro? Zhar. Obshehi Khim. 25, 109-14; J. Gen. Chem. (U.S.S.K.) 25, 91-5(1955) (Engl. translation); C.A. 49, 6817h, 13899g. All —Passing CH ₂ : CHC; CH (200 g.) over 5 hrs. into EthgBr (from 300 g. EtBr) at —18°, followed, on the next day by 1 hr. at room temp. and 40 min. at reflux, and addn. over 6 hrs. of 230 g. BuOCH ₂ CH ₂ Ac in Et ₂ O, allowing the mixt. to stund overright with cooling, and then refluxing 0.5 hr., gave after hydrolysis with 10% H ₃ SO, 73.5% BuOCH ₂ CH ₄ -CMc(OH)C: CCH: CH ₂ (I), b. 109-11°, day 0.9002, n ₁ ° 1.4713; hydrogenation over Pt gave the satd. analog, b. 104°, d.; 0.8688, n ₁ ° 1.4390, identical, with sample prepd. from BuMgBr and the corresponding ketone (this sample, b. 108°, n ₁ ° 1.4400). I (86 g.) was stirred 8 hrs. at 35-40° with 258 g. MeOH, 3 g. HgSO,, and a little pyrogallol, while 7 g. HgSO, was being gradually added; after distn. there was obtained 58.3 g. 3.methyl-7-methoxy-1-butoxy-3-hepten-5-one, b. 142-3°, d. 0.9420, n ₁ ° 1.4598, which fuiled to yield cryst. derivs. Hydrogenation of the ketone over Pt gave 3-methyl-7-methoxy-1-butoxy-5-heptanone, b. 130-1°, d. 0.9212, n ₁ % 1.4404, while oxidation of the unsatd. ketone with KMnO.	gave AcCH ₁ CH ₁ OBu, b ₀₀ 177-81°, n ¹⁰ 1.4215 (2.4-dinitro-phenylhydrazone, in. 211-12°), and MeOCH ₁ CH ₁ CO ₁ H, b ₁₀ 200-2°, n ¹⁰ 1.4204. Stirring 136° g. I with 135° g. 50%. H ₂ SO ₂ 2 hrs. at 68-70° gave 80 g. BuOCH ₂ CH ₁ CC(-CH ₁ CC) CH ₂ CC CH ₂ CH ₃ , b ₁₀ 100-2°, d ₁₀ 0.8612, n ¹⁰ 1.4920, which rapidly polymerized on standing to a solid polymer. Hydrogenation of the enyne (*1) over Pt oxide gave 1-butoxy-3-methylheptane, b ₂ 87°, d ₁₀ 0.7979, n ¹⁰ 1.4259. II (100 g.) stirred with 850 g. 90%, McOH 4 g. HgSO ₃ , 1 inl. H ₂ SO ₃ and a little pyrogallol 29 lirs. at 62-5° gave 83 g. 5-methoxy-2-(2-butoxyethyl)-1-hexen-3-one, b ₁ 121-0°, d ₁₀ 0.9403, n ¹⁰ 1.4576, (III); the product before redistn. contained some 2-(2-butoxyethyl)-1,4-hexadien-3-one (IV). Hydrogenation of III over Pt gave 3-methyl-6-methoxy-1-butoxyheptan-4-one, b ₂ 110-20°, d ₂ 0.9149, n ¹⁰ 1.4389. Oxidation of III with KMnO ₂ gave HCO ₂ H, MeOCHMcCH ₂ CO ₂ H, b ₂ 110-11°, n ²⁰ 1.4214, whose Ag salt was prepd. for analysis, and BuOCH ₂ CH ₂ CO ₂ H, b ₁ 116-18°. Heating 20 g. III 0.6 hr. to 105° at 16 mir. with 0.1 g. p-MeC ₂ H ₂ SO ₃ H gave 0 g. IV, b ₁ 100-10°, n ²⁰ 1.4700, d ₁₀ 0.9292, which hydrogenated over Pt oxide to 3-methyl-1-butoxy-4-heptanone, b ₁ 83-4°, d ₁₀ 0.8567, n ²⁰ 1.4335.







VARTANYAN, S.A.; MATSOYAN, S.G.; MUSAKHANYAN, G.A.

Isomerization of 1-dialklamine-2, 4 diene systems. Izv. AN Arm.
SSR. Ser. FMET Nauk 9 no.10:29-35 \$56. (MIBA 10:4)

1. Khimicheskiy institut AN Armyanskoy SSR.
(Isomerization)

Addition of secondary amines to vinyl-acetylene alcohols. Izv.

AN Arm. SSR. Ser. FORT nauk 9 no.10:107-111 56. (MLRA 10:4)

1. Khimicheskiy institut AN Armyanskoy SSR. (Vinyl compounds) (Amines)

VARTANYAN, S.A. Synthesis and conversion of β-alkoxy ketones. Trudy Inst.khim.AB Gruz.SSR 12:1831-203 '56. (MIRA 10:5) 1. Institut khimii Akademii nauk Armyanskoy SSR. (Ketones)

VARIANYAN, S. C.

USSR/Chemistry of High Molecular Substances.

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 27055.

Vartanyan, S.A., Pirenyan, S.K. Academy of Sciences of Armenian SSR. Author Inst Title

To The Question of Polymerization Mechanism of

Acetylene.

Orig Pub: Dokl. AN ArmSSR, 1956, 23, No. 1, 23 - 28.

Abstract: The authors give an account of views of various

investigators on the mechanism of acetylene (I) pelymerization and assume that the mechanism of I pelymerization in presence of Cut is an ion mechanism: first the n -complex of I is formed in the result of the addition of I to Cu+, this complex is converted into a carbonium ion, which is stabilized later by producing the π-complex of vinylacetylene. The latter

Card 1/2

VARTANYAN, S.A.; KHAMAGORTSYAN, V.N.; MESROPYAN, E.G.

The chemistry of vinylacethylene. Report No.3: Aminomethylation of methyl- S -alkoxyethylketones. Izv. AN Arm. SSR. Ser. khim. nauk 10 no.1:65-70 '57. (MERA 10:9)

1. Khimicheskiy institut Akademii nauk Armyanskoy SSR. (Pentanone) (Methylation)

VARTANYAN, S.A.; ZHAMAGORTSYAN, V.N.; BADANYAN, Sh.O. Water State of the Control of the Co Chemistry of vinylacetylene. Report No.4: Synthesis and transformation of 1-alkoxypentene-4-yne-2. Izv. AN Arm. SSR Ser. khim. (MIRA 10:12) nauk 10 no.2:125-130 '57. 1. Khimicheskiy institut AN ArmSSR. (Pentene)

> CIA-RDP86-00513R001858710011-9" **APPROVED FOR RELEASE: 08/31/2001**

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VARTANYAN, S.A.; TOSUNYAN, A.O.

VARTANYAN, S.A.; TOSUNYAN, A.O.

Chemistry of vinylacetylene. Report No.5: Synthesis and transformations of 1,3-dichloro-5-alkoxypentene-2. lzv. AN Arm. SSR Ser. (MIRA 10:12) khim. nauk 10 no.3:195-202 157.

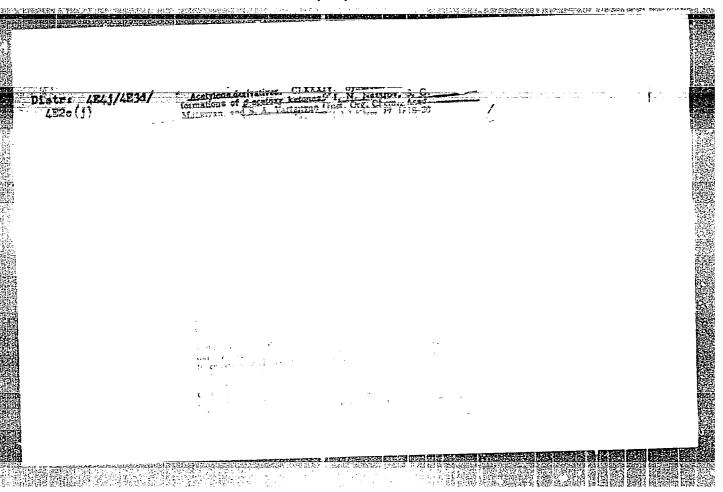
1. Khimicheskiy institut AN ArmSSR. (Pentene)

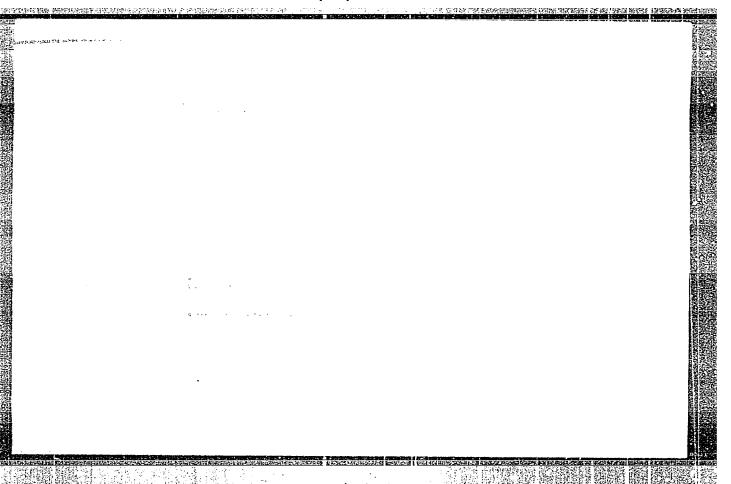
VARTANYAN, S.A.; BADANYAN, Sh.O.

Cheristry of vinyl acetylene. Baport No.6: Addition compounds of secondary arines with vinyl acetylene alcohols. Izv. AH Arm. SSR. Ser. khim. nauk v.10 no.5:347-352 '57. (MIRA 11:1)

1. Khimicheskiy institut AN ArmSSR. (Butenyne)

新疆域的





VARTANYAN, SA.

AUTHOR:

79-11-10/56 Mazarov, I. M. (Deceased), Matsoyan, S. G.

Vartanyan, S. A., Zhamagortsyan, V. H.

TITLE:

Derivatives of Acetylone (Proizvodnyje atetilena). 100, Southesis and Conversions of 3-Vindlethingltetrated refuran-

-3-ols (189. Sintez i prevrashcheniya 3-viniletiniltetragydro-

ruran-j olov).

PERIODICAL:

Zhurnal Obshche/ Khimii, 1957. Vol. 27, Nr 11,pp. 2961-2969(USSR)

ABSTRACT:

The authors succeeded in bringing about the synthesis of 3-vinyl--ethinyltetrahydrofurfuranols-3- with a yield of 90% by the action of magnesium bromovinylacetylene upon tetrahydrofurfurane -3-. In this manner they obtained 3 vinylethin, ltetrahydrofurfuranols -3-which formed the corresponding 3- butyltetrahydrofurfuranols -3- on hydrogenation with a Ft - catalyst after taking up 3 Mol. hydrogen. On heating the anhydrous methylacoholisclution in the presence of mercary sulfite the vinylethingltetrahydrofurfuranols as well as other vinylethinglearbinols yield dienes (CnH2n-2). In the destillation over potassium bisulfate the, are dehydrated and yield the corresponding acutylenes. On hydrogenation in alconolpolations in the pres noe of a platinum catalyst these acetylenes take up four molecules of hydrogen and form the corresponding 3 - but/ltstrah/drofariaranes. Thus quite a number of 3-

Card 1/2

系列的 數學的 人名英格兰人姓氏克里克

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CIA-RDP86-00513R001858710011-9"

Derivatives of Acetylera, 189. Synthesis and Conversions of 3-Vinylethinyltetrahydrofuran-3-ols

79-11-10/56

vinylethinglhydrofarfuranels + 3 - was synthesized and some of their conversions were investigated (as by isomerization, dehydration, hydration of the corresponding acetylene derivatives and hydrogenation.). There are 3 references, 2 of which are Slavic.

ASSOCIATION: Institute of Organic Chamistry AN USSR imeni N. D. Zelinskiy and Chemical Institute All Armenian SSR (Institut organicheskoy khimii imeni H. D. Belinskogo Akademii nauk SSSR i Khimicheskiy institut Akademii naah Arayanshoy SSR).

SUBMITTED:

October 15, 1956

AVAILABLE:

Library of Congress

1. Acetylene derivatives 2. 3-Vinylethinyltetrahydrofuran-3-ols-Synthesis

Card 2/2

CIA-RDP86-00513R001858710011-9" APPROVED FOR RELEASE: 08/31/2001

Kechanis no.2:81-	m of acetylene polymeri 85 '58.	zation. Dokl. AN Arm	(MIEA 11:10)
	hoskiy institut AN Army	anskey SSR. Predstav	lene V.M.
Tarayan.	(Acetylene) (Polymer	izatien)	
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VARTANYAN, S.A.; SHAROYAN, E.G.

Scintillation properties of 2,5-diphenylfuran. Dokl.AN Arm.SSR
27 no.5:287-288 '58. (MIRA 12:5)

1. Fizicheskiy institut AN ArmSSR. Predstavleno N.M.Kocharyanom.

(Furan)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710011-9"

Nazarov, I. N., (deceased), Vartanyan, S.A., SOV/79-28-10-26/60 .UTHORS: Matsoyan, S. G. Derivatives of Acetylene (Proizvodnyye atsetilena) CXCIV. Hydration of Divinyl Acetylene and Vinyl Isopropenyl TITLE: Acetylene in Alcohol Solutions (CXCIV. Gidratatsiya divinilatsetilena i vinilizopropenilatsetilena v spirtovykh rastvorakh) Zhurnal obshchey khimii, 1958, Vol 28, Nr 10, pp 2757-2766 PERIODICAL: (USSR) Nazarov and his collaborators have demonstrated several times that the divinyl acetylenes easily hydratize and form ABSTRACT: dienes on their heating in aqueous methanol solution in the presence of sulfuric acid and mercury sulfate. The divingl acetylene and the symmetrical dienes are the most difficult ones to hydratize. The dienes formed accumulate methanol under certain conditions of reaction and are transformed into

that, depending on the conditions of the reaction, these Card 1/3

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 β -methoxy ketones (Scheme 1). It was only a natural

consequence to carry out this nydration also in other alcohols in order to obtain different $oldsymbol{eta}$ -alkoxy ketones. It turned out

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Derivatives of Acetylene. CXCIV. Hydration of SOV/79-28-10-26/60 Divinyl Acetylene and Vinyl Isopropenyl Acetylene in Alcohol Solutions

ketones, as well as tetrahydro-y-pyrones, are formed. In the case of a ramification and a higher molecular weight the velocity of hydration is slowed down. Divinyl acetylene and vinyl isopropenyl acetylene thus are hydratized to the corresponding dienones on their heating in aqueous ethanol, butanol, and isopropenyl alcohol in the presence of mercury sulfate and sulfuric acid. The divinyl acetylene yields the vinyl propenyl ketone and the vinyl isopropenyl acetylene yields the propenyl isopropenyl ketone. The dienes formed affiliate one or two alcohol molecules, depending, on the conditions of the reaction, and are transformed into β -alkoxy ketones. 2-methyl-tetrahydro-4-pyrone (50% yield) is formed as the only reaction product of the hydration of divinyl acetylene in 50% methyl and ethyl alcohol. The alkoxy group arranges itself always in the β -position to the carbonyl group in the affiliation of the alcohols to the dienes. All synthesized $oldsymbol{eta}$ -alkoxy ketones react with primary and secondary smines under the formation of 4-piperidones or β -amino ketones. There are 6 references, 6 of which are Soviet.

Card 2/3

Derivatives of Acetylene. CXCIV. Hydration of Divinyl SOV/79-28-10-26/60 Acetylene and Vinyl Isopropenyl Acetylene in Alcohol Solutions

ASSOCIATION:

Khimicheskiy institut Akademii nauk Armyanskoy SSR

(Chemical Institute of the Academy of Sciences Armyanskaya

SSR)

SUBMITTED:

October 15, 1957

Card 3/3

TO THE PROPERTY OF THE PROPERT

VARTANYAN, S.A.; TERZYAN, A.G. Chemistry of vinyl acetate. Report no.7: Synthesis and conversions of

& -aminovinylacetylene alcohols. Izv. All Arm. SSR khim. nauk 11 no.1: 37-43 158.

l. Institut organicheskoy khimii AN ArmSSR. (Butenyne)

CIA-RDP86-00513R001858710011-9" APPROVED FOR RELEASE: 08/31/2001

VARTANYAN, S.A.; ZHAMAGORTSYAN, V.N.

Chemistry of vinyl acetate. Report No.8: Synthesis and conversions of vinylacetylene alcohols, containing &-alkoxy groups, Isv. AN Arm.SSR. Khim. nauki 11 no.2:99-108 '58. (MIRA 11:11)

1. Khimicheskiy institut AN ArmSSR. (Butenyne)

VARTANYAN, S.A.; TOSUNYAN, A.O.

Chemistry of vinylacetylene. Report No.9: Conversions of 1,3dichloro-salkoxy-2-pentanone. Izv. AN Arm.SSR. Khim.nauki 11
no.3:177-184 '58. (MIRA 11:11)

1. Khimicheskiy institut AN ArmSSR.
(Pentanone)

VARTANYAN, S.A.; BADANYAN, Sh.O.

Chemistry of vinylacetylene. Report No.16: Addition of secondary chamnes to ethers of vinylacetylene alcohols and hydration of amines to ethers of acetylene amine alcohols. Izy. AN Arm.SSR.

Khim.nauki 11 no.3:185-191 '58.

1. Institut organicheskoy khimii AN ArmSSR.

(Ethers)

(Ethers)

(Acetylene)

VARTANYAN, S.A.; TOSUNYAN, A.O.

Chemistry of vinylacetylene. Report No. 11: Synthesis and conversions of 1,3-dichloro-2-penten-5-ol. Izv. AN Arm. SSR. Khim.nauki 11 no.4: 263-271 158.

1. Institut organicheskoy khimii AN ArmSSR. (Pentenol)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710011-9"

VARTANYAN, S.A.; BANANYAN, Sh.O.

Chemistry of vinyl acetylene. Report No.7: Addition of dimethylamine to divinylacetylene hydrocarbons. Izv.AN Arm. dimethylamin. auki 11 no.5:343-350 '58. (MIRA 12:1) SSR. Khim.nauki 11 no.5:343-350 '58.

1. Institut organicheskoy khimii AN ArmSSR. (Dimethylamine)

NAZABOV, I.N. [deceased]; VARTANYAN, S.A.; MATSOYAN, S.G.

Acetylene derivatives. Part 194: Hydration of bivinyl acetylene
in alcoholic solutions. Zhur.ob.khim. 28 no.10:2757-2766 0'58.
(MIRA 11:12)

1. Khimicheskiy institut AN Armyanskoy SSR.
(Acetylene) (Hydration)